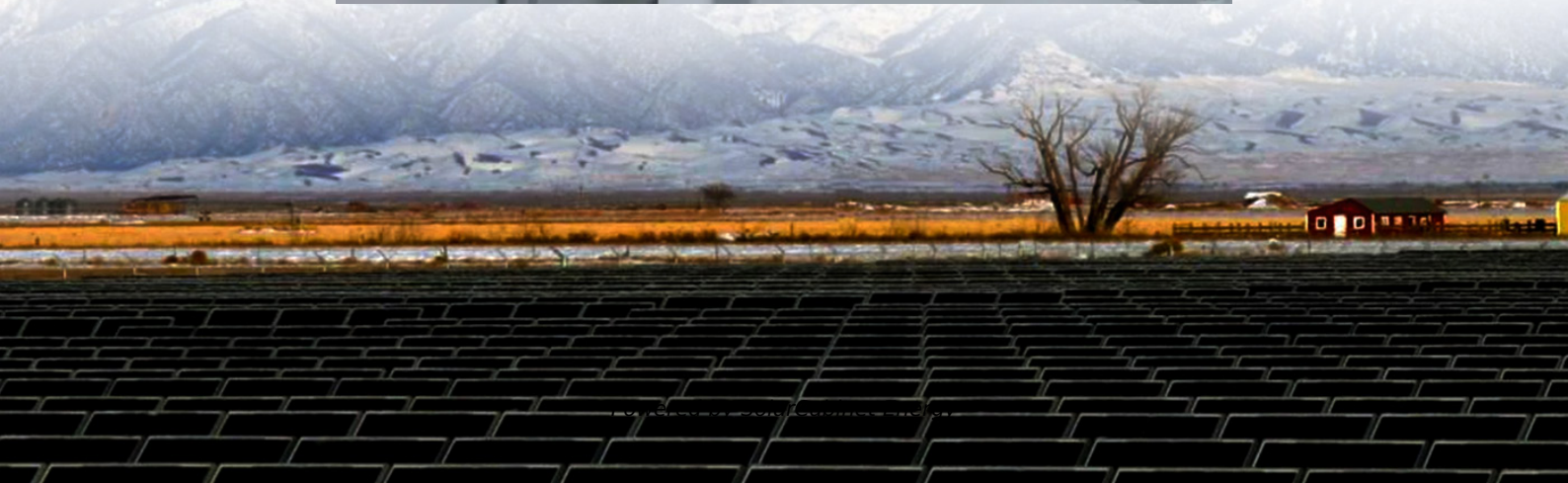


Thailand s environmentally friendly solar energy system application





Overview

What is Thailand doing with solar energy?

Flagship solar energy projects in Thailand are becoming increasingly innovative: the state utility, EGAT, is tendering a 24 MW floating solar array at Ubol Ratana Dam, the first phase of a 2.7 GW hydro-floating solar hybrid program that avoids land-use conflicts while boosting reservoir efficiency. Policy momentum is catching up with engineering.

What is Thailand's solar potential?

Thailand boasts a technical solar potential exceeding 300 GW, yet less than 2% of its land area is needed to achieve this. By 2037, the market potential for rooftop solar PV energy is projected at 9,000 MW. However, as of 2022, only 1,800 MW of rooftop solar PV capacity has been installed, representing a small fraction of this potential.

Is rooftop solar a viable solution for Thailand's energy transition?

Rooftop solar PV systems represent a promising solution to diversify Thailand's energy mix and empower consumers to participate in the energy transition. Despite its vast solar potential and declining technology costs, the adoption of rooftop solar remains significantly underutilized due to various barriers.

How do solar panels work in Thailand?

In Thailand, these are comprised of rooftop PV systems, ground-mounted PV systems and floating PV systems. The implementation can be done in both self-consumption with the ability to sell the excess electricity back to the grid, and with the private power purchase agreement (private-PPA) aspects.

Why should Thailand invest in rooftop solar PV?

By fostering partnerships and aligning goals, Thailand can create a conducive environment for rooftop solar PV investments, ensuring a just and sustainable



energy transition.

Is Thailand ready for a solar grid integration?

In a study published in January, ASEAN grid flexibility: Preparedness for grid integration of renewable energy, Kittner and two other researchers concluded that Thailand is among the most prepared nations in ASEAN when it comes to integration of high shares of solar PV on to the grid without causing major issues.



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[The official website of Tourism Authority of Thailand](#)

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Solar PV in Thailand will continue to be an important player in energy market as Thailand had set the ambitious target of installing around half of its renewable electricity from PV systems by 2037.



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